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AC induction servo motors DV

- Low-maintenance
- Service life-lubricated bearing
- Convection cooled or ventilated
- Field-weakening range up to 3 times the rated speed

- High speeds
- High overload capacity
- Good smooth running properties

AMKASYN DV servo motors are robust AC induction motors. They cannot be demagnetized and are characterized by high overload capacity and good smooth running properties.

AMKASYN DV servomotors deliver practically constant torque from standstill up to rated speed. The field-weakening range allows constant power output up to three times the rated speed. The maximum speed reaches up to 10,000 rpm, the torque range is from 0.3 to 26 Nm.

AMKASYN DV servo motors feature a low-leakage design and allow extreme rates of current rise for high dynamic response.

Technical details

TECHNICAL DATA: CONVECTION-COOLED DESIGN

Motor type	M_O [Nm]	M_N [Nm]	P_N [kW]	I_N [A]	n_N [1/min]	n_{max} [1/min]	J [kgcm²]	m [kg]	L [mm]	L_{BR}[mm]
DV 4-0,5-4-xx0-4000	0,6	0,3	0,13	0,55	4000	10000	0,5	2,5	160	196
DV 4- 1- 4-xx0- 4000	0,9	0,8	0,32	1,2	4000	00000	0,9	4,5	210	246
DV 5- 1- 4-xx0- 4000	1,3	1,1	0,49	1,3	4000	10000	2	6,5	198	250
DV 5- 2- 4-xx0- 4000	2,2	2	0,83	2,2	4000	10000	3,7	7,5	248	300
DV 7- 4- 4-xx0- 1500	4,3	4	0,63	1,7	1500	8000	11	10	216	261
DV 7- 4- 4-xx0- 3000	4	3,4	1,1	2,6	3000	8000	11	10	216	261
DV 7- 6- 4-xx0- 1500	6,7	6	0,96	2,4	1500	8000	18	13,5	261	306
-3000	6,1	5	1,55	3,6	3000	8000	18	13,5	261	306

Motor type	M_O [Nm]	M_N [Nm]	P_N [kW]	I_N [A]	n_N [1/min]	n_{max} [1/min]	J [kgcm²]	m [kg]	L [mm]	L_{BR}[mm]
DV 5- 2- 4-xxF- 3000	2,2	2,1	0,7	2	3000	10000	2	8,5	301	353
DV 5- 4- 4-xxF- 3000	4,1	3,9	1,2	3,3	3000	10000	3,7	9,5	351	403
DV 7- 8- 4-xxF- 1500	8,4	7,6	1,2	3,1	1500	8000	11	13	328	373
-3000	7,4	6,8	2,1	5,2	3000	8000	11	13	328	373
DV 7-12- 4-xxF- 1500	11	10	1,6	4,8	1500	8000	18	18,5	373	418
-3000	11	10	3,1	7,3	3000	8000	18	18,5	373	418
DV 10-19-4-xxF-1500	24	22,4	3,5	8,2	1500	5500	74	44	396	475
-3000	22	19	6	14	3000	5500	74	44	396	475
DV 10-26- 4-xxF-1500	32	35	5	11	1500	5500	100	51	436	515
-3000	32	27	8,3	20,5	3000	5500	100	51	436	515

Explanation of characteristic values:

M_O ... Continuous standstill torque
M_N ... Continuous torque
P_N ... Rated power
I_N .... Rated current
n_N ... Rated speed
n_{max} ... Maximum speed
kt ... Torque constant
J ... Inertia
m .... Mass
L ... Length
L_{BR} ... Length with brake

TECHNICAL DATA: FORCE-VENTILATED VERSION

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